

Figure 1

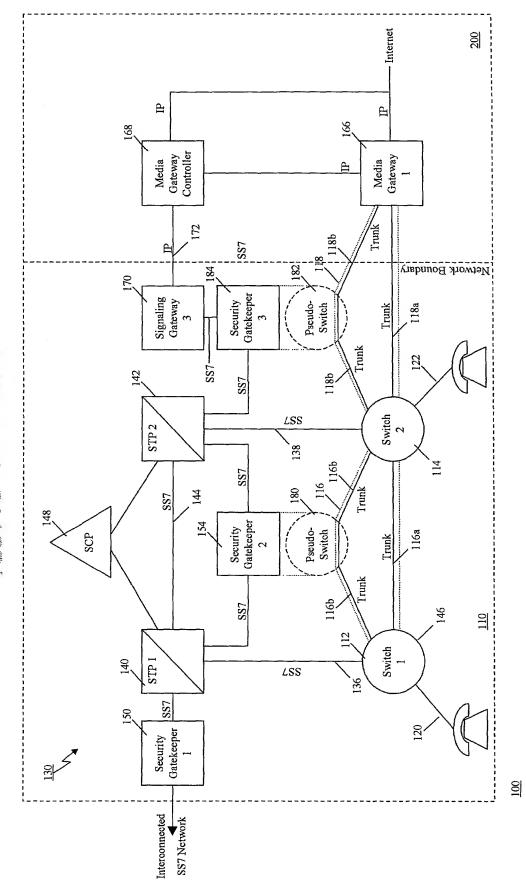


Figure 2

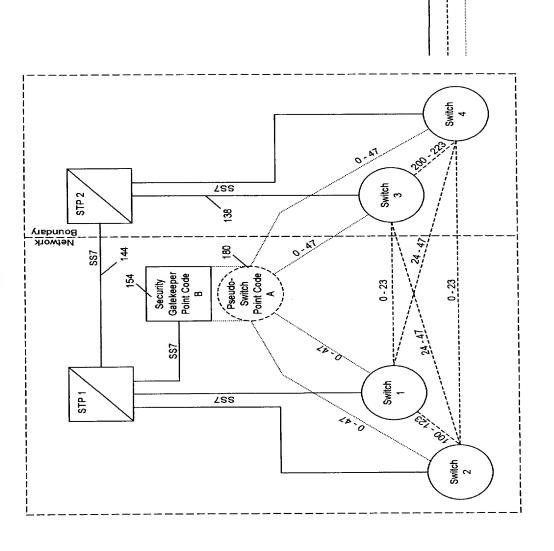


Figure 3

SS7 Links Physical Trunks Virtual Trunks

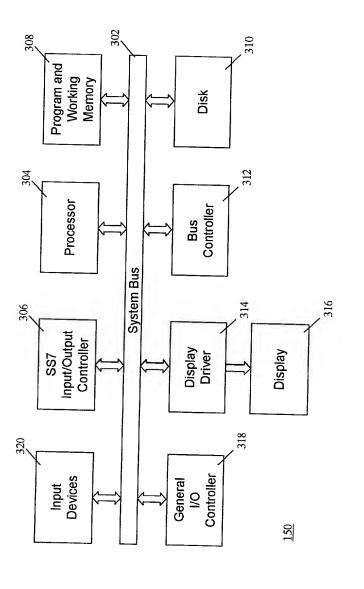


Figure 4

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SS7 Protocol

Presentation Application Transport Session Network

Data Link

Physical

TCAP/ASP TCAP/ASP SCCP MTP-L3 MTP-L2		ISUP				
TCAP/ASP	OMAP	TCAP/ASP	sccP	MTP - L3	MTP - L2	MTP - L1
	TCAP	TCAP/ASP				

 Application Service Part (Connection Oriented Protocols
 Message Transfer Part (L1, L2 & L3)
 Operations, Maintenance, Application Part
 Signaling Connection Control Part
 Transaction Capability Application Part ASP -MTP -OMAP -SCCP -

Figure 5

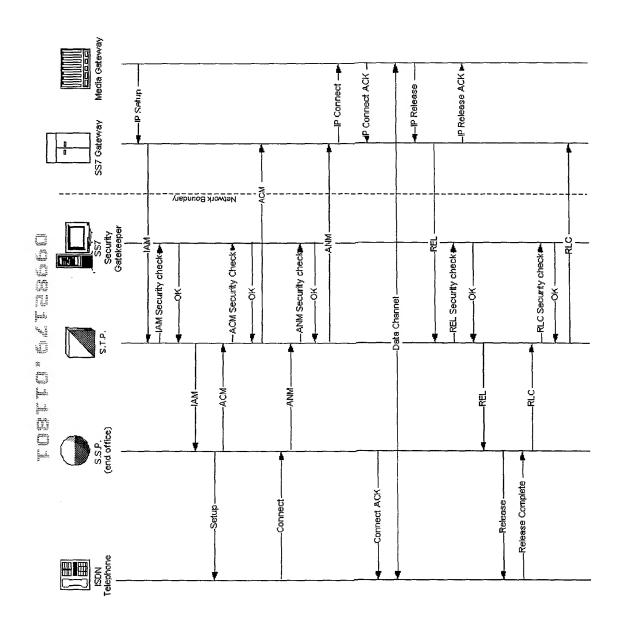


Figure 6

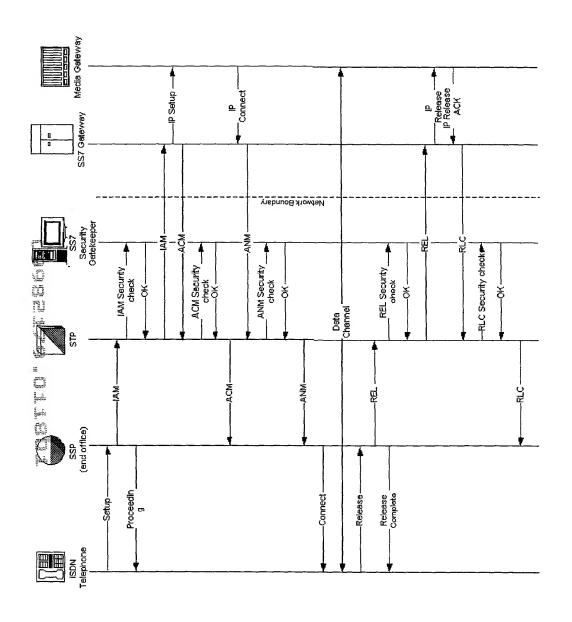


Figure 7

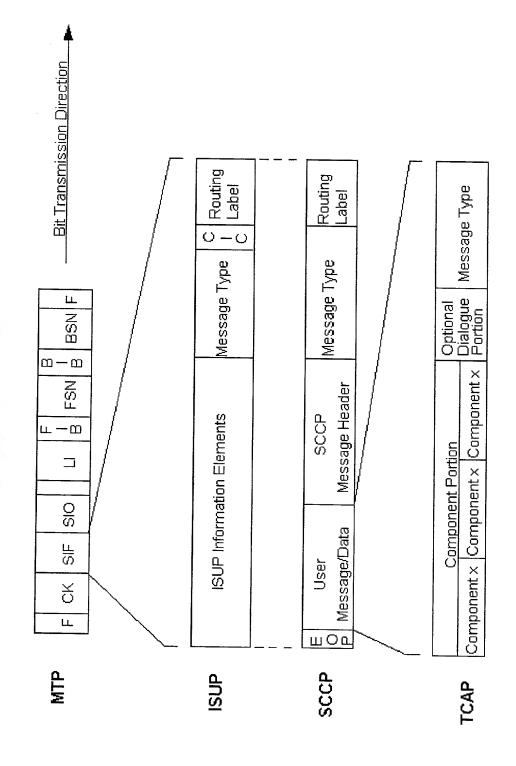


Figure 8

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		- ∞	~	9	2	4	က	7	~
Flag	∢	0	-	_	-	-	~	-	0
Forward sequence Information	m	BSN/ BIB		Back	Backward Sequence Number	uenbe	e Nun	ber	
Backward Sequence Information	U	FSN/		Forw	Forward Sequence Number	dneuce	Numb	ēr	
Message length Indicator	۵	ď	Spare		Lengl	Length Indicator	ator		
Service Information	ш	National Network Opt.	onal COpt.	P.F.	Mess Priority		(ISI)	MTP User Part (ISUP)	
ı	-							'	
					Dest Poin	Destination Point Code		1 3	
Routing Label	ш ——							'	
					Por	Origination Point Code	- 0	1 1	
				Signali	Signaling Link Selection	Selec	tion		
CIC	9			Circuit Identification Code	lentifica	ation C) ope	!	
Message Type	I			2	Message Type	- Type			
ISUP Information Element	_			Insi	SUP Parameters	meters			
Check Bits					Check Bits			i	

Figure 9

Name of ISUP Parameter	Length Indicator Parameter	Parameter Content	•	•	•	•	Name of ISUP Parameter	Length Indicator Parameter	Parameter Content
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Figure 10

Security Context	Security Context Length Indicator Parameter	Security Context Parameter Value
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Figure 11

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	Meaning	Not used.	Data Encryption Algorithm	Integrity Check	Message Code Authentication	Sequence, Timestamp and Identification
	Value	0	1	2	8	4

Figure 12

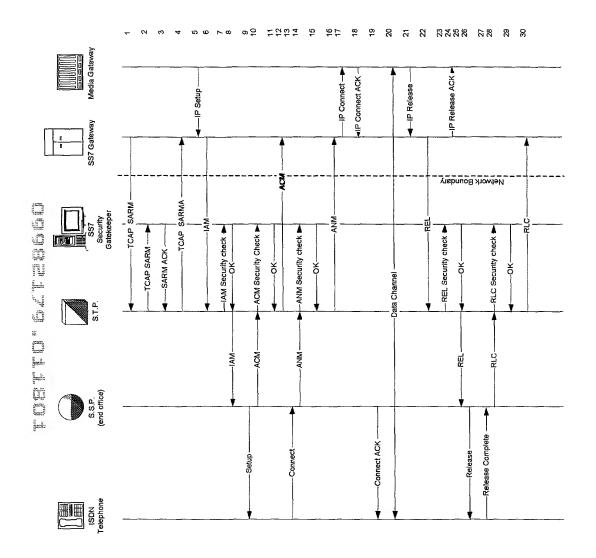


Figure 13

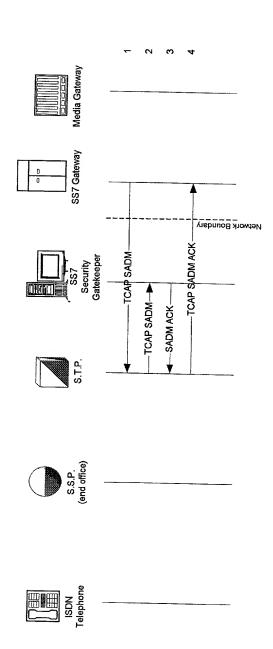


Figure 14

Initial Address Message The Complete Message

CIC High-Order 6-bits

2-bits spare

SIO and Routing Label CIC Low-Order Octet Backward Call Indicator Bits H..A

Message Type = 6

Backward Call Indicator Bits P...I
Offset to Start of Optional Part
Optional Parameter Code

Optional Parameter
No. of Octets = Length Indicator Value

Optional Parameter Length Indicator

End of Optional Parameters Indicator

Fig. 16

Fig. 18

Answer Message

				.				
SIO and Routing Label	CIC Low-Order Octet	2-bits CIC High-Order 6-bits	Message Type = 9	Offset to Start of Optional Part	Optional Parameter Code	Optional Parameter Length Indicator	Optional Parameter No. of Octets = Length Indicator Value	End of Optional Parameters Indicator

Fig. 17

Release Complete Message

Message Type = 16	
CIC High-Order 6-bits	2-bits spare
CIC Low-Order Octet	
SIO and Routing Label	

Fig. 19

Release Message

SIO and Routing Label
CIC Low-Order Octet
2-bits CIC High-Order 6-bits
Message Type = 12
Offset of 1st Mandatory Var. Parameter
Offset of Start of Operational Part
Length Indicator of Cause Indicators
Release Cause Indicator Parameter No. of Octets = Length Indicator Value
Optional Parameter Code
Optional Parameter Length Indicator
Optional Parameter No. of Octets = Length Indicator Value
End of Optional Parameters Indicator

Fig 18

